

# GV2ME21

## TeSys GV2-Circuit breaker-thermal-magnetic - 17...23 A - screw clamp terminals

### Main

Commercial Status	Commercialised
Range of product	TeSys GV2
Device short name	GV2ME
Product or component type	Circuit breaker
Circuit breaker application	Motor protection
Poles description	3P
Network type	AC
Utilisation category	Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to IEC 60947-4-1
Breaking capacity	I <sub>cu</sub> = 4 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 I <sub>cu</sub> = 6 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 I <sub>cu</sub> = 15 kA at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 I <sub>cu</sub> = 3 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2 I <sub>cu</sub> = 50 kA at 230/240 V AC 50/60 Hz conforming to IEC 60947-2
[I <sub>cs</sub> ] rated service short-circuit breaking capacity	40 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 690 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2
Thermal protection adjustment range	17...23 A
Trip unit technology	Thermal-magnetic
Magnetic tripping current	327 A

### Complementary

Mounting mode	By clips By screws
Mounting support	Rail
Mounting position	Horizontal Vertical
Motor power kW	18.5 kW at 690 V AC 50/60 Hz 11 kW at 500 V AC 50/60 Hz 9 kW at 400/415 V AC 50/60 Hz
Control type	Pushbutton
[U <sub>e</sub> ] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[U <sub>i</sub> ] rated insulation voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[I <sub>th</sub> ] conventional free air thermal current	23 A conforming to IEC 60947-4-1
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV conforming to IEC 60947-2
Power dissipation per pole	2.5 W
Mechanical durability	100000 cycles
Electrical durability	100000 cycles for AC-3 at 440 V

Operating rate	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Connections - terminals	Screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness : flexible - with cable end Screw clamp terminals 2 cable(s) 1.5...6 mm <sup>2</sup> - cable stiffness : flexible - without cable end Screw clamp terminals 2 cable(s) 1...6 mm <sup>2</sup> - cable stiffness : solid
Tightening torque	1.7 N.m - on screw clamp terminals
Mechanical robustness	Shocks 30 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations 5 Gn, 5...150 Hz conforming to IEC 60068-2-6
Suitability for isolation	Yes conforming to IEC 60947-1
Phase failure sensitivity	Yes conforming to IEC 60947-4-1
Height	89 mm
Width	45 mm
Depth	78.2 mm
Product weight	0.26 kg

## Environment

Standards	EN 60204 IEC 60947-1 IEC 60947-2 IEC 60947-4-1 NF C 63-120 NF C 63-650 NF C 79-130 UL 508 VDE 0113 VDE 0660 CSA C22.2
Product certifications	ATEX BV CCC CEBEC CSA DNV EZU GL GOST RINA SETI TSE UL LROS
Protective treatment	TH
IP degree of protection	IP20 conforming to IEC 60529
IK degree of protection	IK04
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-40...80 °C
Fire resistance	960 °C conforming to IEC 60695-2-1
Operating altitude	2000 m

## RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	0631

## Contractual warranty

Period	18 months
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